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INVENTION DISCLOSURE FORM

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CARLA KRUEGER

Note: Detailed instructions for completing this form can be found in Appendix V of Sony's Patent Guide for Engineers and Inventors.

I. IDENTIFICATION

IPD Case #:

5084516

(IPD use only)

1a. Short Descriptive Title of the Invention:

A New Drifting Reduction for Transcoding MPEG Video

1b. Short Summary of the Invention:

In this paper, we propose a drifting reduction for open-loop MPEG video transcoding with coefficient dropping. The basic idea is to decode those dropped out pixels to form a drift reference frame, and change the quantization indices in the current macroblock accordingly. Although this method cannot completely eliminate the drift errors, however simulation results demonstrate its effectiveness on reducing the drift errors by improving the objective measures, e.g., PSNR and the most of the drift operations can be done in frequency domain resulting in the fast transcoding processing.

2. Name of Responsible Patent Coordinator (if any): Hung-Ju Lee

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3. Identify all persons who contributed to the present invention including persons from other Sony Divisions, Sony Japan and Outside Companies. Final determination of inventorship is a legal question which will be resolved at a later time.

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